

WHAT IS CLAIMED IS:

1. An AC/DC converter comprising:

a switching device for switching supply of a DC voltage
5 to a primary side of a transformer, said DC voltage being
obtained by rectifying and smoothing an AC voltage fed
from a commercial power supply;

a rectifier circuit for rectifying a secondary side
output of said transformer;

10 a first control circuit for controlling said switching
device such that a constant output voltage is produced
from an output terminal; and

a second control circuit for controlling said
switching device such that the voltage of the output
15 terminal becomes a predetermined voltage higher than the
constant output voltage.

2. A power supply system comprising:

an AC/DC converter controlled such that a constant
20 output voltage is produced from an output terminal, and
that when the constant output voltage cannot be output
from said output terminal, a predetermined voltage higher
than the constant output voltage is output; and

a DC-DC converter including a converter for converting
25 the predetermined voltage output from said AC/DC converter,
and a protective circuit for halting the converting
operation if said AC/DC converter produces the

predetermined voltage.

3. The power supply system as claimed in claim 2, further comprising a reset circuit for supervising the output
5 of the DC-DC converter voltage, and for outputting a reset signal when said DC-DC converter halts the converting operation.